

providing an indication of the change for the selected thread.

5. (Amended) A method for determining whether a selected thread of execution of a multi-threaded program is running, comprising:

suspending execution of the multi-threaded program;

retrieving register data corresponding to the selected thread;

computing a value based on the register data;

comparing the computed value with register information stored following a previous suspension of the multi-threaded program;

regarding the selected thread as running if the computed value is different from the previously stored register information; and

providing an indication corresponding to a portion of the program containing the selected thread.

8. (Twice Amended) A method for time profiling multiple threads of execution corresponding to a program, comprising:

periodically suspending execution of the program;

determining whether information corresponding to processor registers for each thread indicates that the thread is running by comparing the information to stored information from a previous interrupt of all of the threads; and

recording time-profiling information for each running thread.

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17. (Twice Amended) A computer-readable medium containing instructions for time profiling multiple threads of execution corresponding to a program, by:
periodically interrupting execution of all of the threads;
determining whether register data corresponding to a selected thread has changed from a previous interrupt of all of the threads; and
providing an indication of the change for the selected thread.

21. (Amended) A computer-readable-medium containing instructions for determining whether a selected thread of execution of execution of a multi-threaded program is running, by:
suspending execution of the multi-threaded program;
retrieving register data corresponding to the selected thread;
computing a value based on the register data;
comparing the computed value with register information stored following a previous suspension of the multi-threaded program;
regarding the selected thread as running if the computed value is different from the previously stored register information; and
providing an indication corresponding to a portion of the program containing the selected thread.

24. (Twice Amended) A computer-readable medium containing instructions for time profiling multiple threads of execution corresponding to a program, by:
periodically suspending execution of the program;